		Pushing the E	nvelope
		2009 Mathen	•
		Priority Academic S	tudent Skills
Oklahoma Mathema	tics		
Grade 5			
Activity/Lesson	State	Standards	
			Convert basic measurements of volume, mass
			and distance within the same system for metric
Types of Engines (and customary units (e.g., inches to feet, hours
pgs. 11-23)	OK	MA.5.4.1.c	to minutes, centimeters to meters).
,			Identify and compare integers using real world
			situations. (e.g., owing money, temperature, or
Chemistry (pgs. 25-			measuring elevations above and below sea
41)	OK	MA.5.2.1.c	level).
			Convert basic measurements of volume, mass
			and distance within the same system for metric
Chemistry (pgs. 25-			and customary units (e.g., inches to feet, hours
41)	ОК	MA.5.4.1.c	to minutes, centimeters to meters).
- ' ' /	OIX	1417 (. 0. 1. 1. 0	
		Pushing the E	nyelone
		2009 Mathen	
		Priority Academic S	
Oklahoma Mathema	tice	Friority Academic 3	Tudent Skins
Grade 6	lics		
	State	Standards	
Activity/Lesson	State	Standards	Lieu substitution to simplify and suplyate
Tunes of Engines (Use substitution to simplify and evaluate
Types of Engines (OK	NAA 6 4 2	algebraic expressions (e.g., if $x = 5$ evaluate 3 -
pgs. 11-23)	OK	MA.6.1.3	5x).
01			Use substitution to simplify and evaluate
Chemistry (pgs. 25-	014		algebraic expressions (e.g., if $x = 5$ evaluate 3 -
41)	OK	MA.6.1.3	5x).
			Use substitution to simplify and evaluate
Physics and Math			algebraic expressions (e.g., if $x = 5$ evaluate 3 -
(pgs. 43-63)	OK	MA.6.1.3	5x).
		Pushing the E	•
		2009 Mathen	
		Priority Academic S	tudent Skills
Oklahoma Mathema	tics		
Grade 7			
Activity/Lesson	State	Standards	
			Develop and apply the formulas for perimeter
Types of Engines (and area of triangles and quadrilaterals to solve
pgs. 11-23)	OK	MA.7.4.1	problems.
Types of Engines (Apply the formula for the circumference and
pgs. 11-23)	OK	MA.7.4.2	area of a circle to solve problems.
			Develop and apply the formulas for perimeter
Chemistry (pgs. 25-			and area of triangles and quadrilaterals to solve
41)	OK	MA.7.4.1	problems.
Chemistry (pgs. 25-			Apply the formula for the circumference and
41)	OK	MA.7.4.2	area of a circle to solve problems.

			Identify, describe, and analyze functional
			relationships (linear and nonlinear) between two
			variables (e.g., as the value of x increases on a
			table, do the values of y increase or decrease,
Physics and Math			identify a positive rate of change on a graph and
(pgs. 43-63)	OK	MA.7.1.1	compare it to a negative rate of change).
			Develop and apply the formulas for perimeter
Physics and Math			and area of triangles and quadrilaterals to solve
(pgs. 43-63)	OK	MA.7.4.1	problems.
Physics and Math			Apply the formula for the circumference and
(pgs. 43-63)	OK	MA.7.4.2	area of a circle to solve problems.
			Develop and apply the formulas for perimeter
Rocket Activity (pgs.			and area of triangles and quadrilaterals to solve
69-75)	OK	MA.7.4.1	problems.
Rocket Activity (pgs.			Apply the formula for the circumference and
69-75)	OK	MA.7.4.2	area of a circle to solve problems.
,			·
		Pushing the Er	nvelope
		2009 Mathen	
	P	Priority Academic S	
Oklahoma Mathema			
Grade 8			
Activity/Lesson	State	Standards	
Types of Engines (0.00.1.00.00	Apply appropriate formulas to solve problems
pgs. 11-23)	OK	MA.8.1.1.d	(e.g., d=rt, l=prt).
pgs. 11-20)			Develop the Pythagorean Theorem and apply
			the formula to find the length of line segments,
			the shortest distance between two points on a
Types of Engines (graph, and the length of an unknown side of a
pgs. 11-23)	ОК	MA.8.3.2	right triangle.
pgs. 11 20)	OIX	1717 (.0.0.2	Develop and apply formulas to find the surface
Types of Engines (area and volume of rectangular prisms,
pgs. 11-23)	ОК	MA.8.4.1	triangular prisms, and cylinders (in terms of pi).
Chemistry (pgs. 25-	OIX	IVI/1.0.4.1	Apply appropriate formulas to solve problems
41)	ок	MA.8.1.1.d	(e.g., d=rt, l=prt).
41)	OIX	IVIA.O. 1. 1.d	Develop the Pythagorean Theorem and apply
			the formula to find the length of line segments,
			the shortest distance between two points on a
Chamietry (nac. 25			
Chemistry (pgs. 25-	OK		graph, and the length of an unknown side of a
41)	OK	MA.8.3.2	right triangle.
Chamiatry (nee 25			Develop and apply formulas to find the surface
Chemistry (pgs. 25-	OK	NAA O 4 4	area and volume of rectangular prisms,
A1)	OK	MA.8.4.1	triangular prisms, and cylinders (in terms of pi).
Physics and Math	OK	NAA O 4 4 1	Apply appropriate formulas to solve problems
(pgs. 43-63)	OK	MA.8.1.1.d	(e.g., d=rt, l=prt).
			Develop the Pythagorean Theorem and apply
			the formula to find the length of line segments,
			the shortest distance between two points on a
Physics and Math	1	1	larged and the length of an unknown side of a
(pgs. 43-63)	OK	MA.8.3.2	graph, and the length of an unknown side of a right triangle.

Physics and Math (pgs. 43-63)	OK	MA.8.4.1	Develop and apply formulas to find the surface area and volume of rectangular prisms, triangular prisms, and cylinders (in terms of pi).
Rocket Activity (pgs. 69-75)	OK	MA.8.3.2	Develop the Pythagorean Theorem and apply the formula to find the length of line segments, the shortest distance between two points on a graph, and the length of an unknown side of a right triangle.
Rocket Activity (pgs. 69-75)	ОК	MA.8.4.1	Develop and apply formulas to find the surface area and volume of rectangular prisms, triangular prisms, and cylinders (in terms of pi).